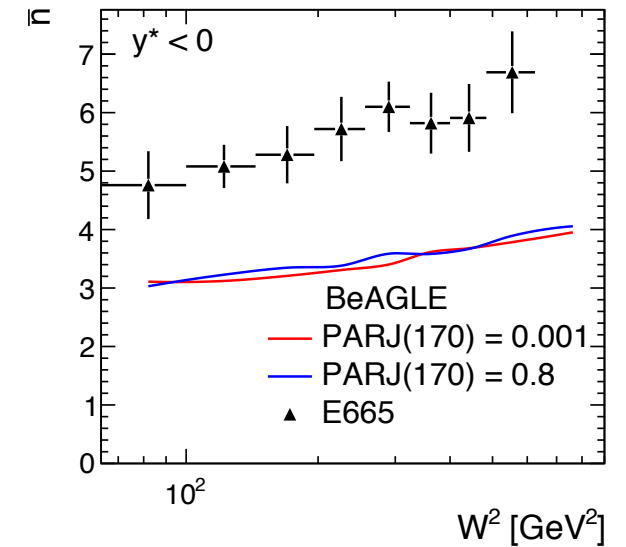
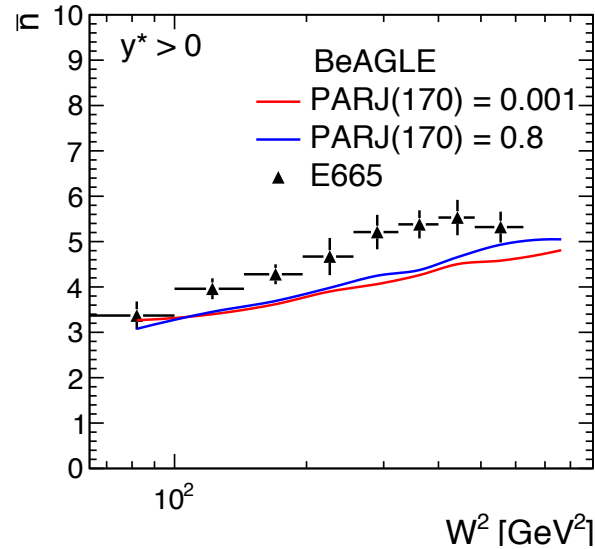
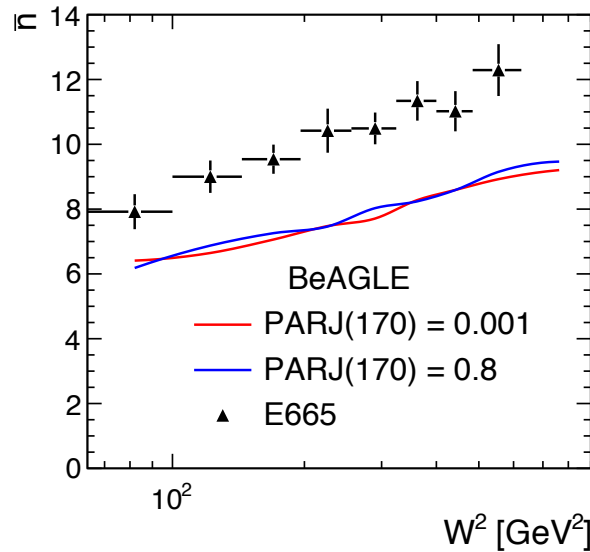


# BeAGLE vs. E665

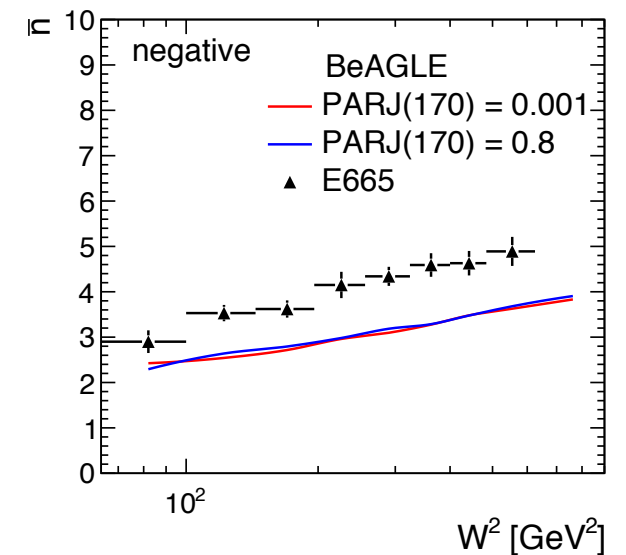
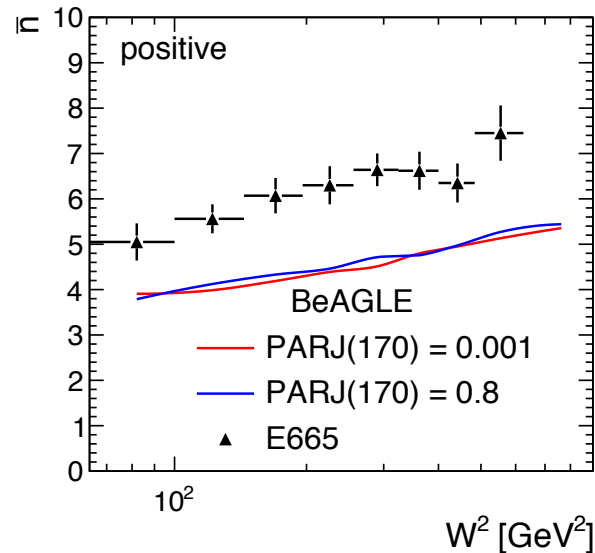
Wan Chang

2021.10.21

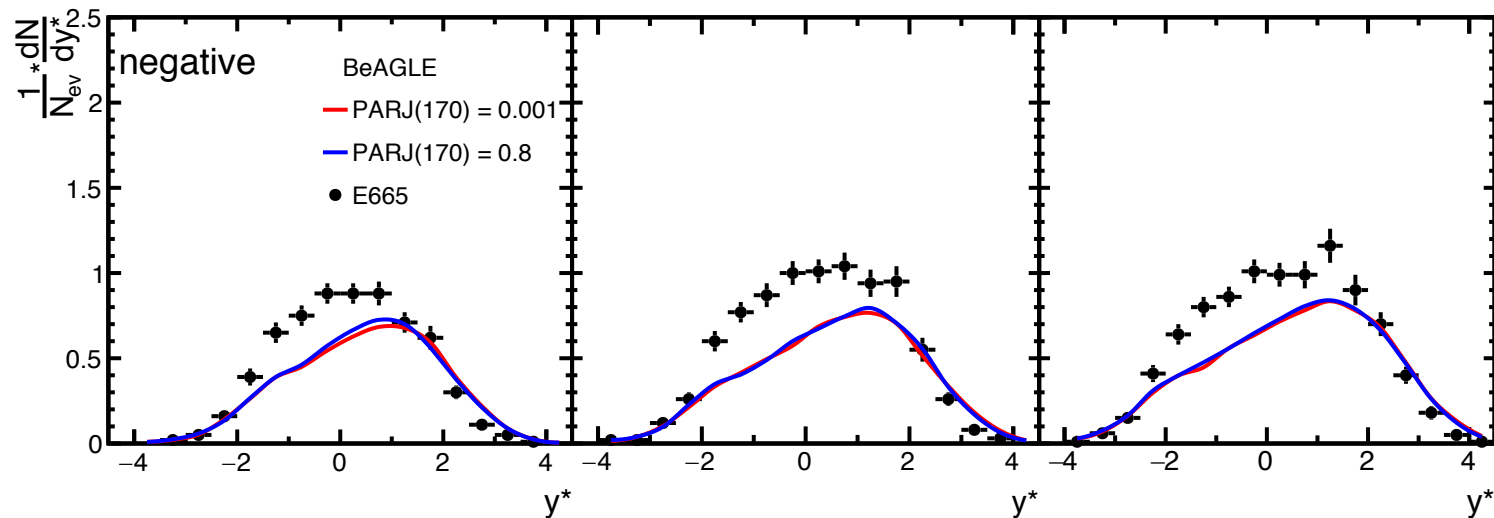
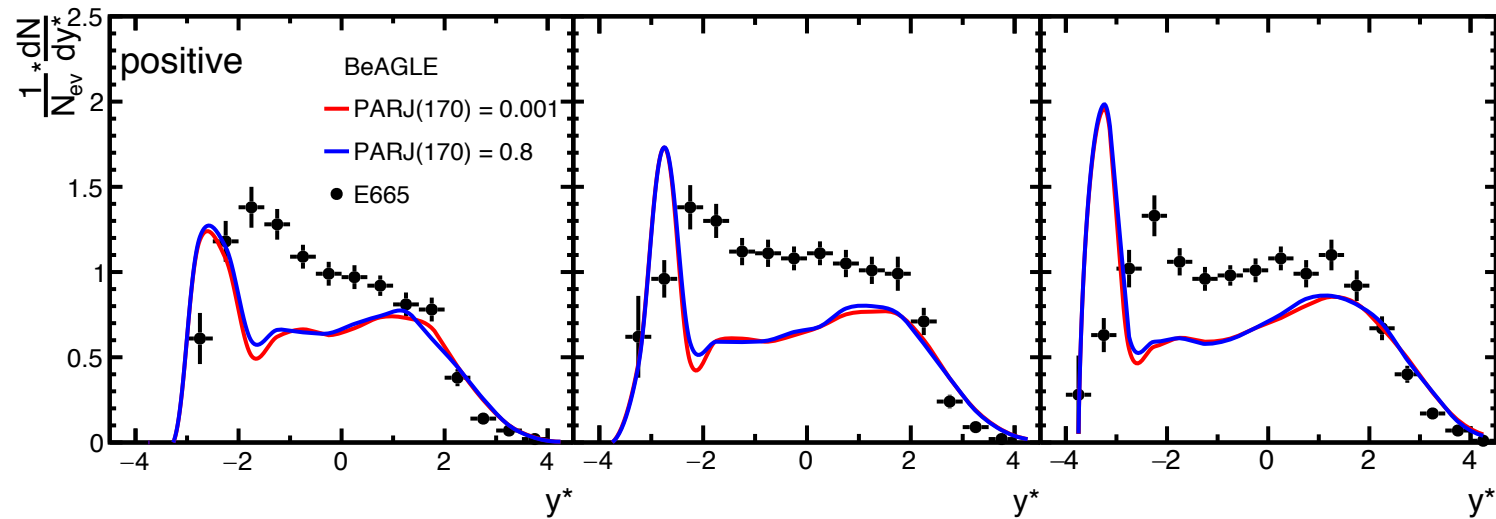
# PARJ(170) = 0.001 vs. 0.8



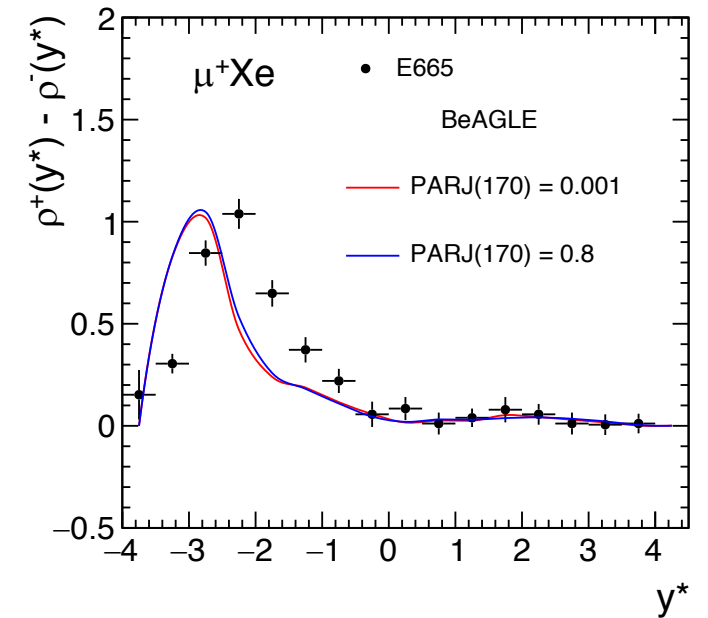
PARJ(170): a parameter for the recoil momentum. It separates the  $p_t$  in fragmentation for the recoil from the one of normal hadrons.



# PARJ(170) = 0.001 vs. 0.8

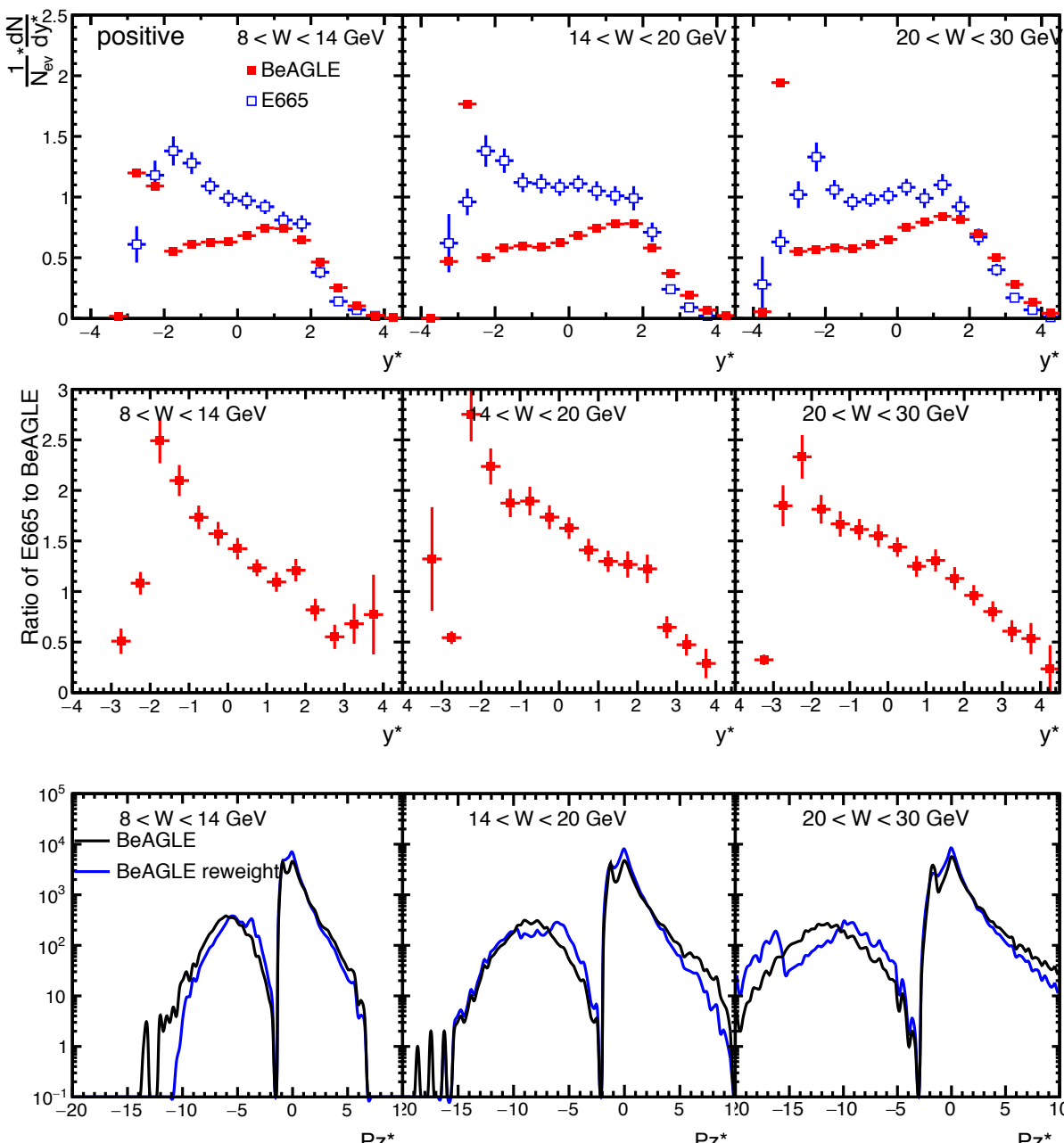


The normalized cms-rapidity distribution of hadronic net charge for muXe:



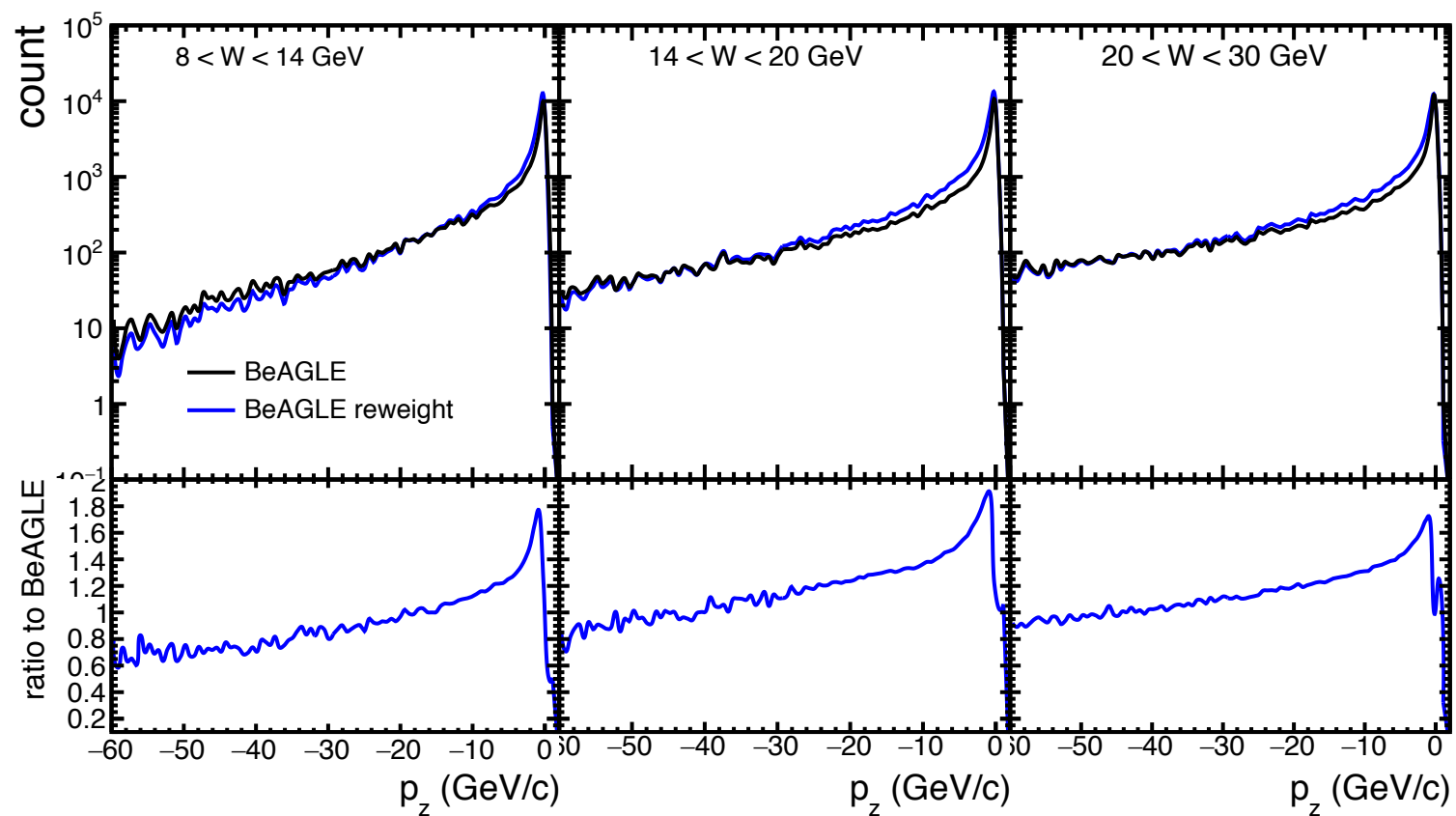
The results with 0.001 are almost same with 0.8.

# BeAGLE reweight



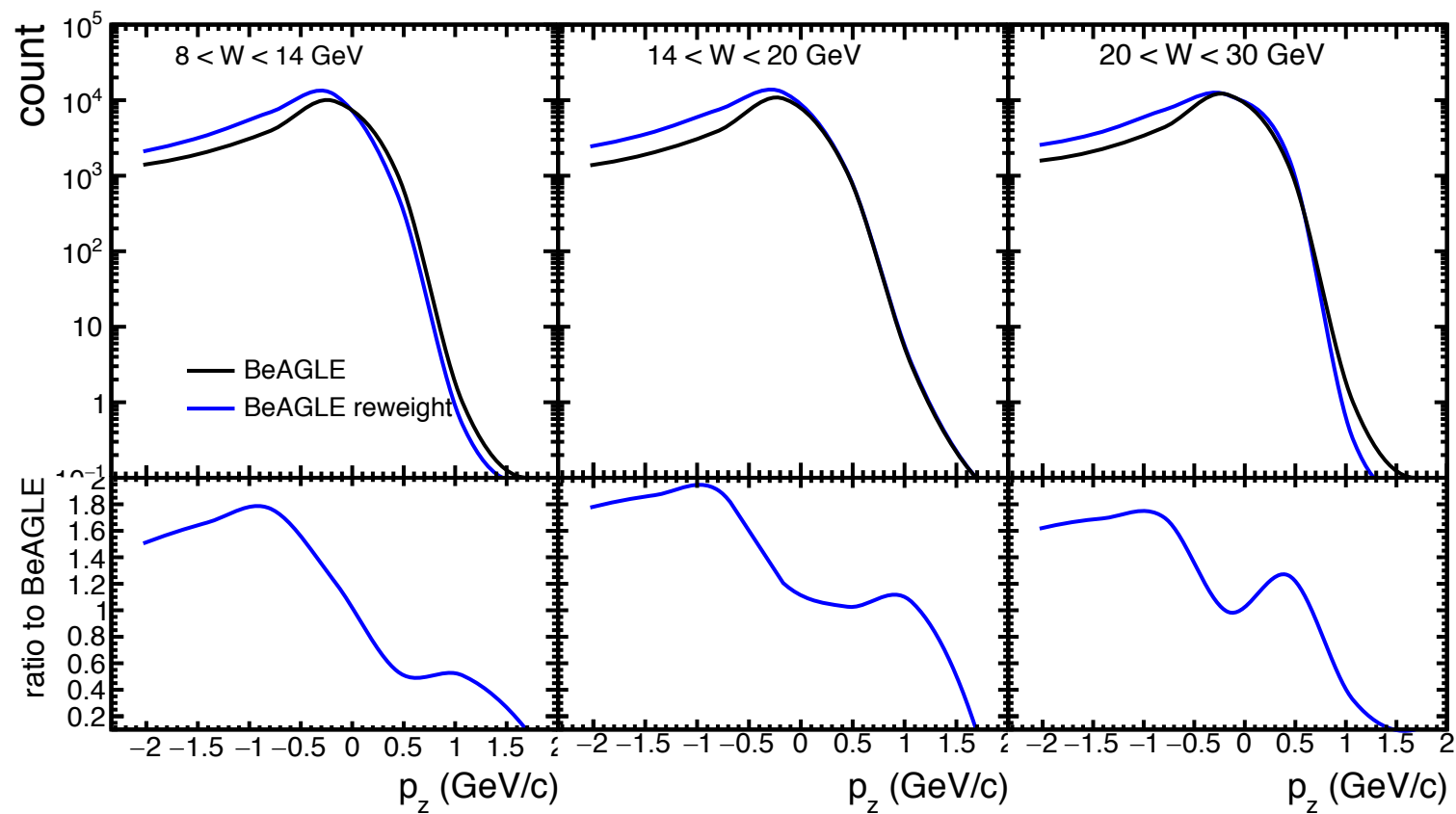
Reweight with the ratio of E665 to BeAGLE.

# BeAGLE reweight

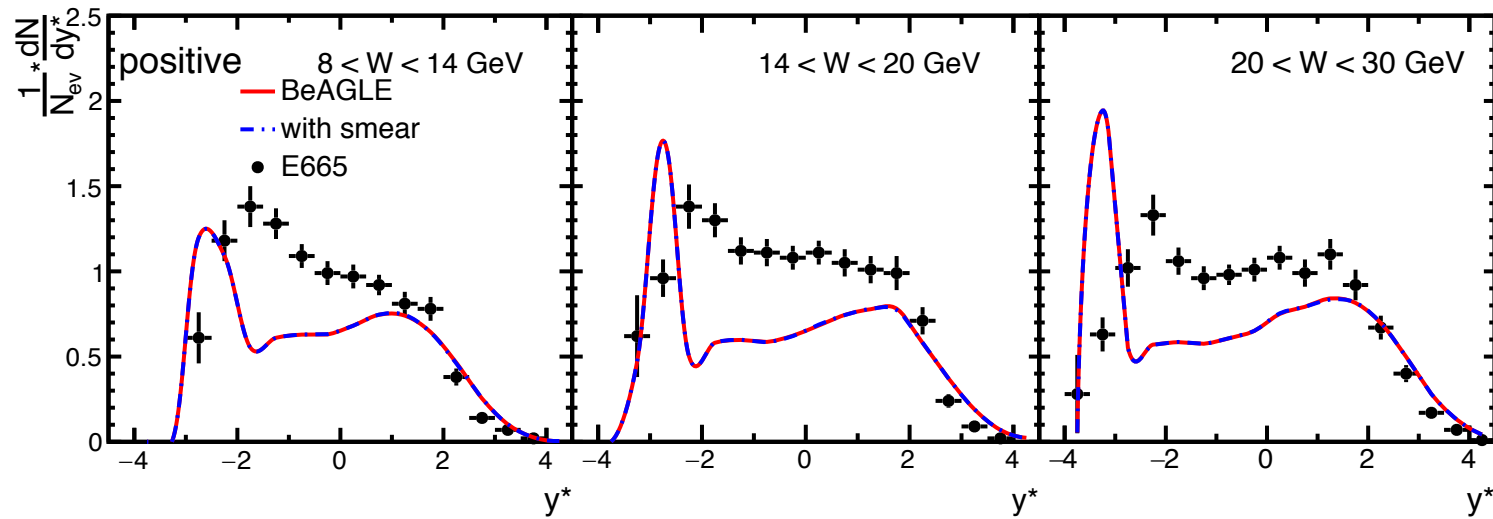


In BeAGLE, muon going direction is  $-p_z$  direction.

# BeAGLE reweight



# Momentum smear

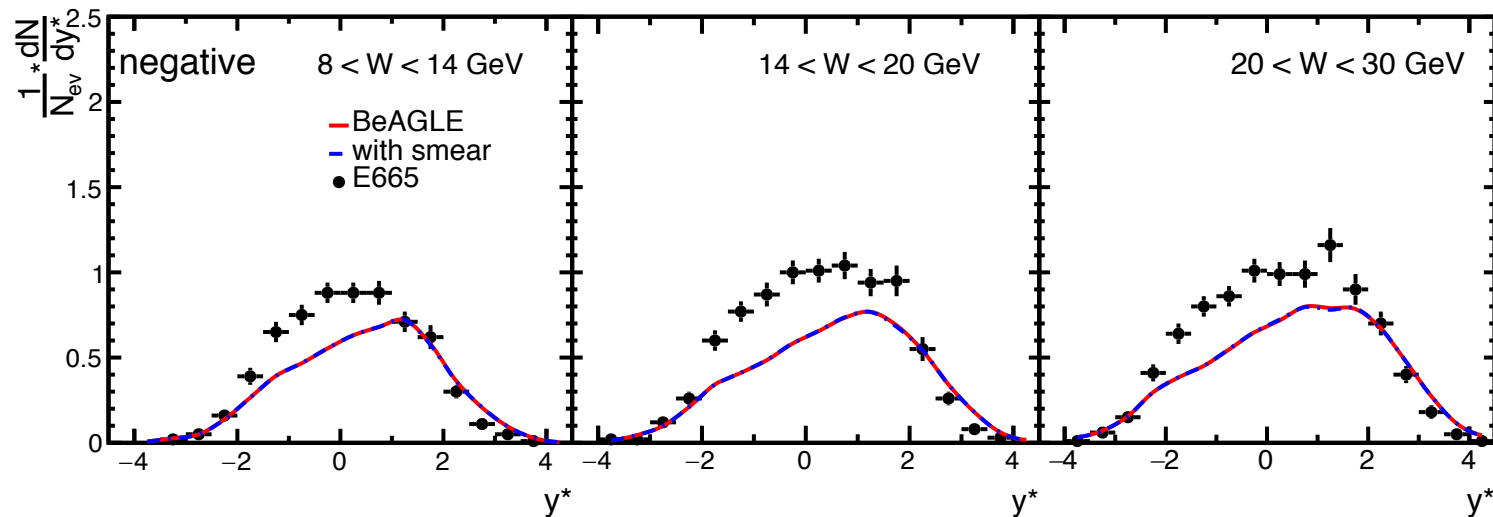


P: (0.2, 10) GeV

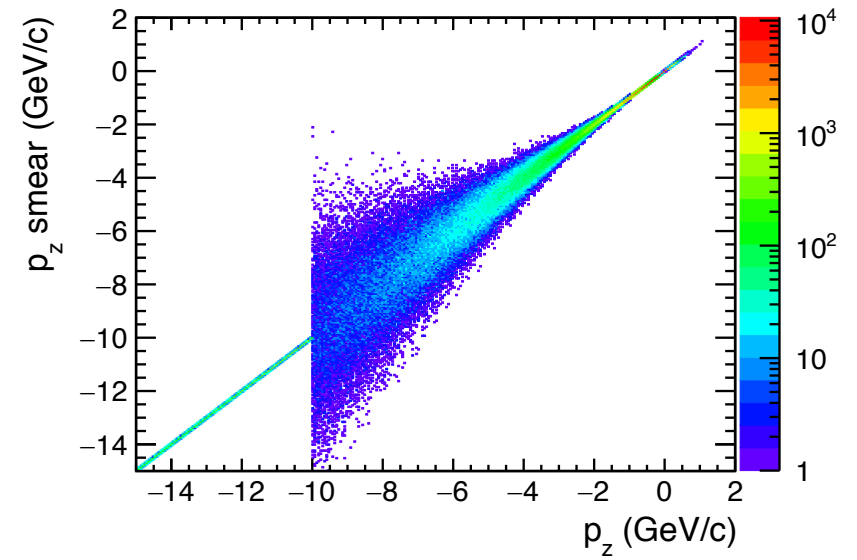
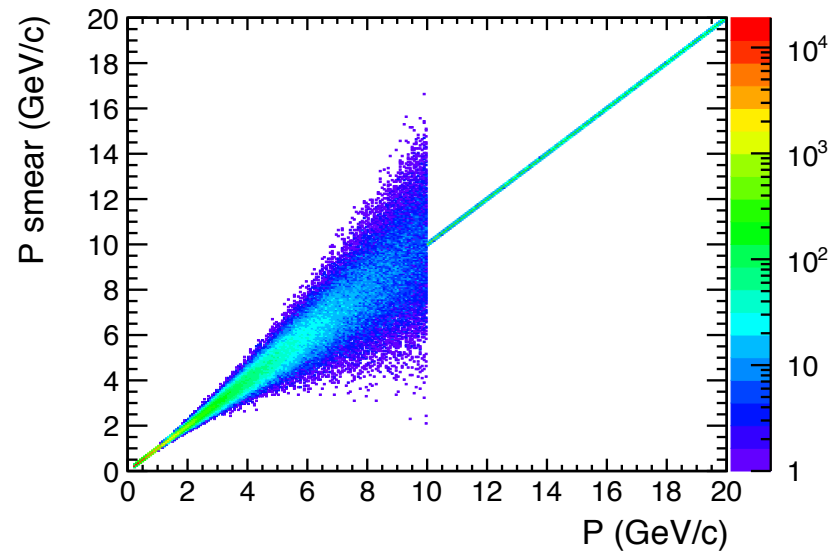
$$\frac{\Delta p}{p} = 0.02 \, p / (GeV/c)$$

P: (10, 500) GeV

$$\frac{\Delta p}{p} = 5 \times 10^{-5} \, p / (GeV/c)$$



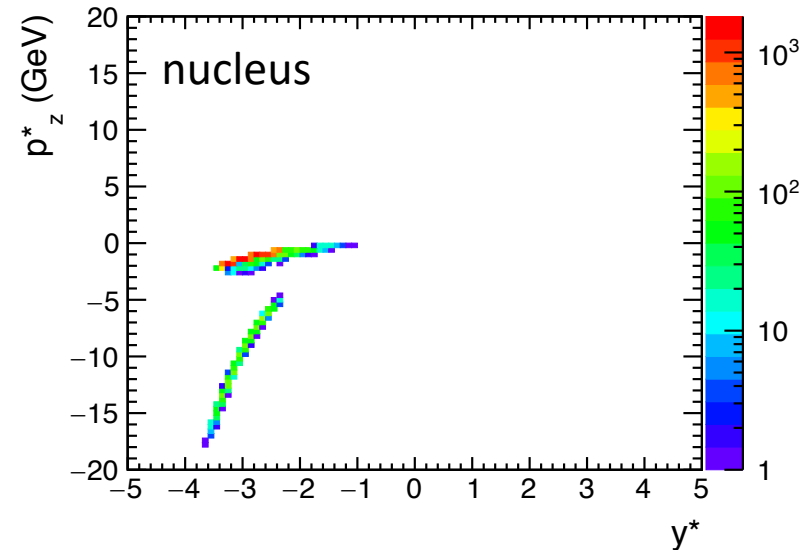
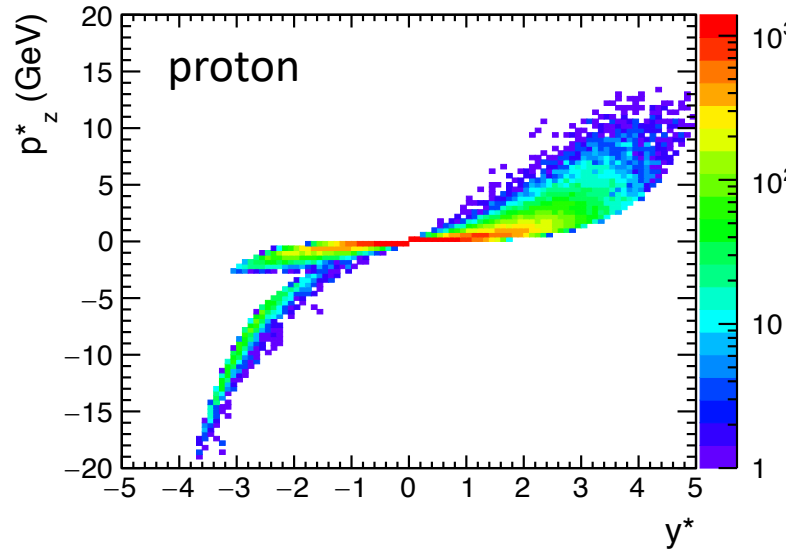
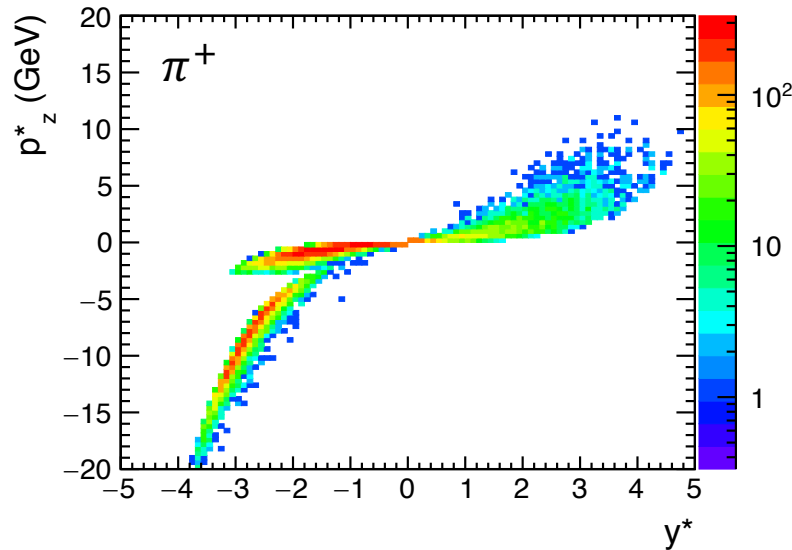
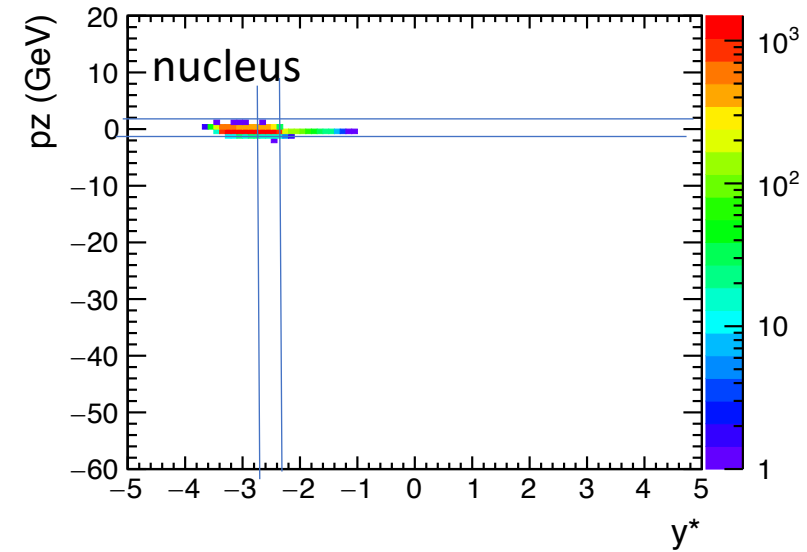
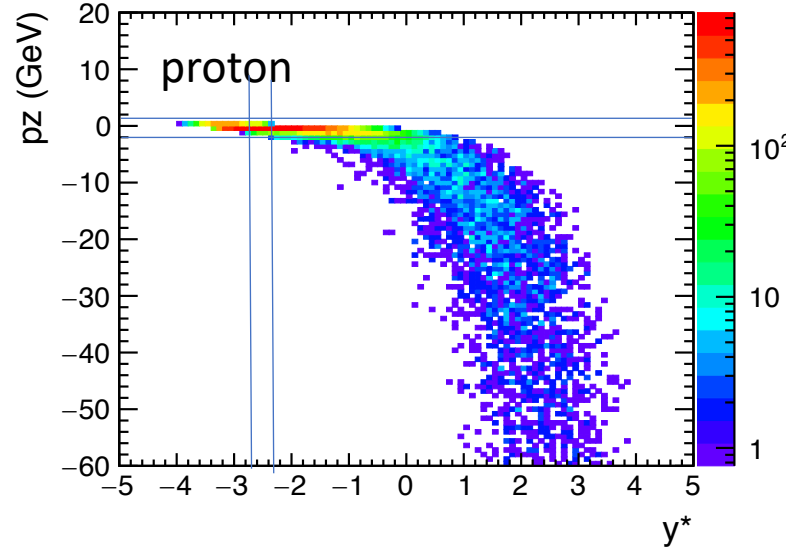
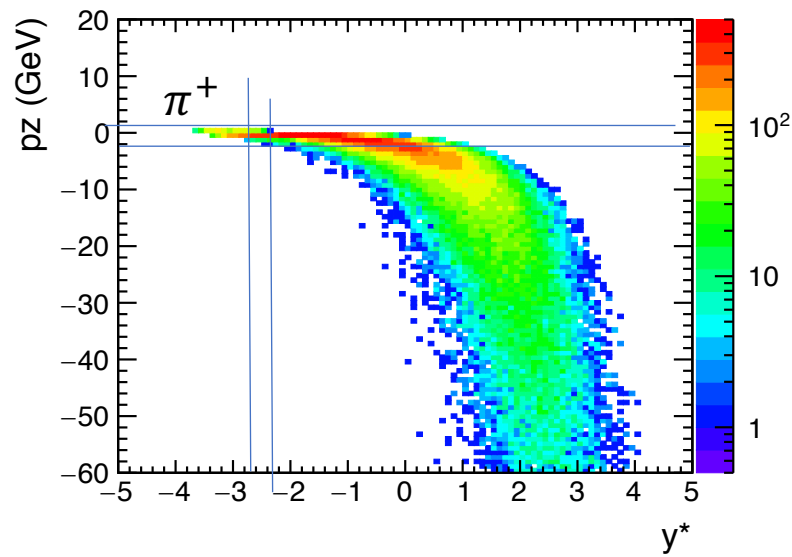
# Momentum smear



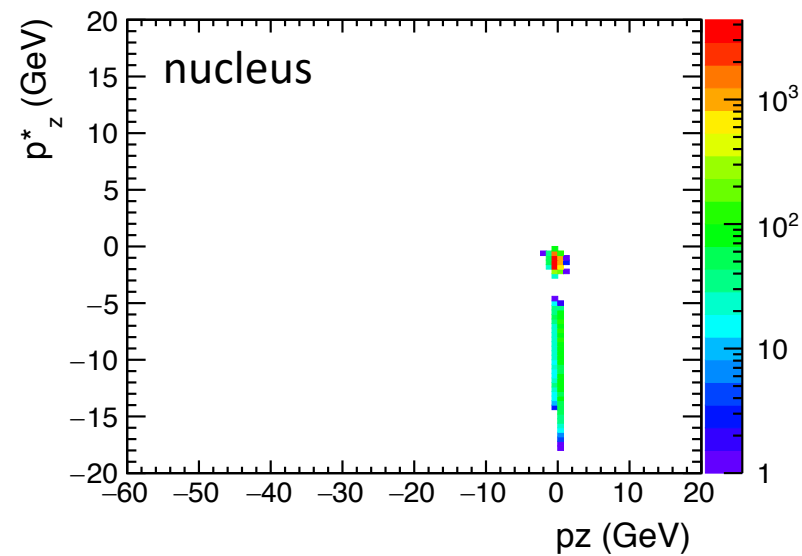
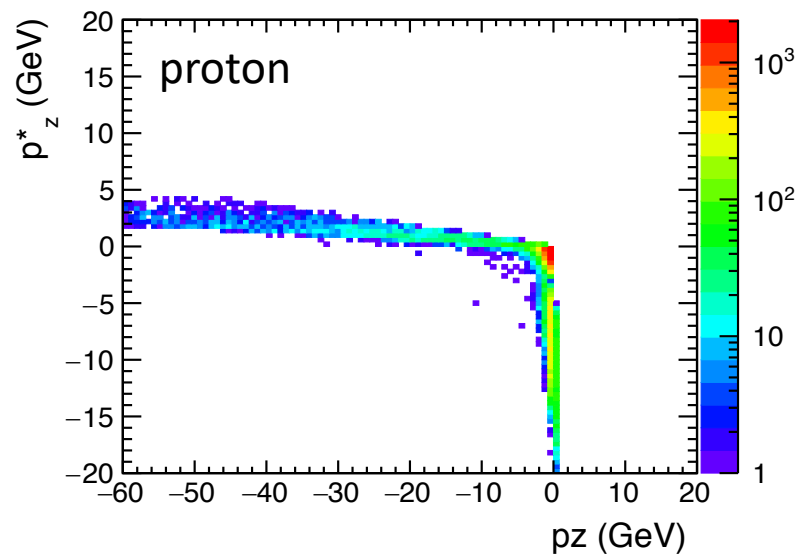
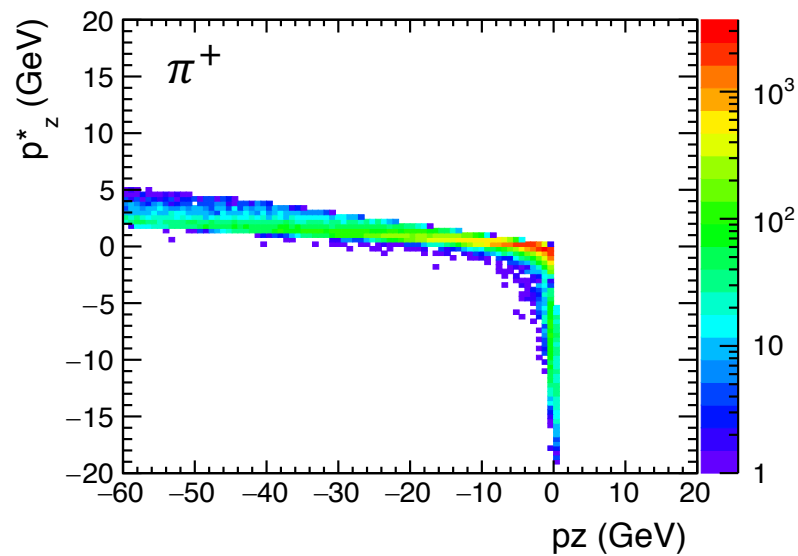


Backup

$y^*$  vs.  $p_z$ (lab frame)     $y^*$  vs.  $p_z^*$  (cms frame)



# $P_z^*$ vs $P_z$



$Y^*$  vs.  $p_z^*$  vs.  $p_z$

